

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=1; day=16; hr=11; min=58; sec=30; ms=434;]

=====

Application No: 10585886

Version No: 1.0

Input Set:

Output Set:

Started: 2008-01-02 12:06:42.260

Finished: 2008-01-02 12:06:43.919

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 659 ms

Total Warnings: 22

Total Errors: 0

No. of SeqIDs Defined: 22

Actual SeqID Count: 22

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-01-02 12:06:42.260
Finished: 2008-01-02 12:06:43.919
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 659 ms
Total Warnings: 22
Total Errors: 0
No. of SeqIDs Defined: 22
Actual SeqID Count: 22

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Oberdoerffer, Philipp
Kanellopoulou, Chrysi

<120> SYSTEMS AND METHODS FOR SHORT
RNA EXPRESSION

<130> 10861-034US1

<140> 10585886

<141> 2008-01-02

<150> PCT/US2005/003104

<151> 2005-01-21

<150> US 60/538,871

<151> 2004-01-22

<160> 22

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 623

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic U6-STOP-shA1 construct

<400> 1

```
tccgacgccg ccatctctag gcccgccgcg gccccctcgc acagacttgt gggagaagct 60
cggtactacc cctgcccccg ttaatttgca tataatatatt cctagtaact atagaggctt 120
aatgtgcgat aaaagacaga taatctgttc tttttaatac tagctacatt ttacatgata 180
ggcttggatt tctataagag atacaaatac taaattatta ttttaaaaaa cagcacaaaa 240
ggaaactcac cctaactgta aagtaattgt gtgttttgag actataactt cgtatagcat 300
acattatacg aagttattac gtttttgcca tttttgaatt cgttcctcag aggaactgac 360
aagcaccta acatcctatt ggaggtcac tcacgtttt tctattttgt ttcttgacag 420
cagagctcgt tgctcactgt atagctcagg ttggcctgac actgatgagg ttctccagtg 480
actgcctcta cctacctact gggatgacag aggtgtacca ccaagccacg cccgggggat 540
ccataacttc gtatagcata cattatacga aggaaatgct ctttctctc aaagctttga 600
ggagaaagag catttccctt ttt 623
```

<210> 2

<211> 282

<212> DNA

<213> Artificial Sequence

<220>

<223> Functional units of the U6-STOP-shA1 construct

<400> 2

```
tccgacgccg ccatctctag gcccgccgcg gccccctcgc acagacttgt gggagaagct 60
cggtactacc cctgcccccg ttaatttgca tataatatatt cctagtaact atagaggctt 120
```

```

aatgtgcatgaa aaaagacaga taatctgttc tttttaatac tagctacatt ttacatgata 180
ggcttggatt tctataagag atacaaatac taaattatta ttttaaaaaa cagcacaaaa 240
ggaaactcac cctaactgta aagtaattgt gtgttttgag ac 282

```

<210> 3

<211> 5

<212> DNA

<213> Artificial Sequence

<220>

<223> U6 promoter of TATA box

<400> 3

```

tataa 5

```

<210> 4

<211> 34

<212> DNA

<213> Unknown

<220>

<223> Wild type of loxP sequence

<400> 4

```

ataacttcgt atagcatata ttatacgaag ttat 34

```

<210> 5

<211> 225

<212> DNA

<213> Artificial Sequence

<220>

<223> Stop casete sequence includes U6 pol III
termination

<400> 5

```

tacgtttttg cgatttttga attcggttcct cagaggaact gacaagcacc ctaacatcct 60
attggaggct cactcacgtt ttttctatct tgtttcttga cagcagagct cgttgctcac 120
tgtatagctc aggttggtcct gacactgatg aggttctcca gtgactgcct ctacctacct 180
actgggatga cagaggtgta ccaccaagcc acgccccggg gatcc 225

```

<210> 6

<211> 212

<212> DNA

<213> Artificial Sequence

<220>

<223> genomic U6 PolIII termination sequence

<400> 6

```

tttttgaatt cgttcctcag aggaactgac aagcacccta acatcctatt ggaggctcac 60
tcacgttttt tctatcttct ttcttgacag cagagctcgt tgctcactgt atagctcagg 120
ttggcctgac actgatgagg ttctccagtg actgcctcta cctacctact gggatgacag 180
aggtgtacca ccaagccacg cccgggggat cc 212

```

<210> 7
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> the mutant second loxP site downstream of the STOP
 cassette

 <400> 7
 ataacttcgt atagcataca ttatacgaag gaaa 34

 <210> 8
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 8
 ggacctccat ctgctcttat tt 22

 <210> 9
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 9
 ggtctattac tgtgcaagtt gg 22

 <210> 10
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 10
 tgtgaattcg ttectcagag gaactga 27

 <210> 11
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 11
 tgtggatccc ccgggcgtgg cttggtgga cacctc 36

 <210> 12

<211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 12
 gactctagat ccgacgccgc catctctag 29

 <210> 13
 <211> 85
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 13
 tgcgaattca aaaatcgcaa aaacgtaata acttcgtata agtatgctat acgaagttat 60
 agtctcaaaa cacacaatta cttac 85

 <210> 14
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 14
 tgctcgagat gtctgagtag gagttcatgc atatc 35

 <210> 15
 <211> 41
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 15
 ctggatcctt atttcagcag gaacagcatc tcccatatct g 41

 <210> 16
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 16
 ctggatcctt acttgaggag aaagagcatt tc 32

 <210> 17
 <211> 21

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 17
 ttcttaataa cccagccttt g 21

 <210> 18
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 18
 gtgatggcag gagatttgta a 21

 <210> 19
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 19
 cattaactgg ggaaggattg tgac 24

 <210> 20
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 20
 gcagaaaagt cagccagcca gatt 24

 <210> 21
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 21
 caagagggag agcaagccta 20

 <210> 22
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer

<400> 22

cgtctcaggc cttcagtgag

20